

ABSTRACT OF THE INVENTION

The present invention provides for a composition that is comprised of a polypeptide that comprises the catalytic domain of a SUMO protease and its substrate. The invention also
5 discusses a method of trapping a protease with its substrate in a deacylation intermediate. A method of identifying substrates of proteases by rational drug design is further discussed and described. Sequences, vectors, and host cells of mutant Ulp1 are also provided.

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